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Sheet 1

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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| Application Number     | 10/054,638      |  |  |  |  |
| Filing Date            | 01/22/02        |  |  |  |  |
| First Named Inventor   | Robert P. Ryall |  |  |  |  |
| Art Unit               | 1645            |  |  |  |  |
| Examiner Name          | S.J.N. Devi     |  |  |  |  |
| Attorney Docket Number | API-01-059-US   |  |  |  |  |

|                       |                          |  | U. S. PATEN                    | T DOCUMENTS  |  |
|-----------------------|--------------------------|--|--------------------------------|--|--|
| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Document Number  Number-Kind Code <sup>2 (f known)</sup> | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columne, Unes, Where Relevant Passages of Relevant Figures Appear |
| 52                    |                          | <sup>US-</sup> 6248570                                   | 06-19-2001                     | Michon, Francis                                    | 435/101  |
|                       | ·                        | <sup>US-</sup> 20030157129                               | 08-21-2003                     | Slaoui, Moncef M.                                  | 424/201  |
|                       |                          | <sup>US-</sup> 20020054884                               | 05-09-2002                     | Peetermans, Julien                                 | 1,24/196.11  |
|                       |                          | US- 20020182226  | 12-05-2002                     | Peetermans, Julien                                 | 424/203.1  |
|                       |                          | US- 4762713  | 08-09-1988                     | Anderson, Porter W.                                | 424/92   |
|                       |                          | US- 4761283  | 08-02-1988                     | Anderson, Porter W.                                | 424/92   |
|                       |                          | <sup>US-</sup> 6146902                                   | 11-14-2003                     | McMaster, Ronald                                   | 436/177  |
|                       |                          | <sup>US-</sup> 5965714                                   | 10-12-1999                     | Ryall, Robert P.                                   | 530/402  |
| - \                   |                          | <sup>US-</sup> 6413520                                   | 07-02-2002                     | Granoff, Dan                                       | 424/197.11   |
|                       |                          | US- 6087328  | 07-11-2000                     | Lees, Andrew                                       | 5/4/8  |
|                       |                          | <sup>US-</sup> 6248334                                   | 06-19-2001                     | Lees, Andrew                                       | 424/236.1  |
|                       |                          | <sup>US-</sup> 20020054879                               | 05-09-2002                     | Lees, Andrew                                       | 424/185.1  |
|                       |                          | <sup>US-</sup> 6007818                                   | 12-28-1999                     | Moreau, Monique                                    | 424 [184.1]  |
| 1 .                   |                          | <sup>US-</sup> 6045805                                   | 04-04-2000                     | Moreau, Monique                                    | 424/837.1  |
|                       |                          | US- 5314811  | 05-24-1994                     | Lee, Ann L.  | 435/101  |
|                       |                          | US- 6632437  | 10-14-2003                     | Schneerson, Rachel                                 | 484/193.1  |
|                       |                          | <sup>US-</sup> 4963534                                   | 10-16-1990                     | Calabria, Ralph                                    | 536/11   |
| V                     |                          | <sup>US-</sup> 4,351,762                                 | 09-28-1982                     | Hassan, Gaafar A.                                  | 530/334  |
| 479                   | ·                        | <sup>US-</sup> 4,814,276                                 | 03-21-1989                     | Evans, George L.                                   | 435/253.6  |

| FOREIGN PATENT DOCUMENTS |              |  |                     |  |   |                |                |
|--------------------------|--------------|--|---------------------|--|---|----------------|----------------|
| Examiner<br>Initials*    | Cita<br>No.1 | Foreign Patent Document  | Publication<br>Date | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages |                | T              |
|                          |              | Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>8</sup> (# known) | .MM-DD-YYYY         | 7 production of order of outside 1                 |   | Figures Appear | T <sup>4</sup> |
| 3                        |              | WO 96/40242  | 12-19-1996          | SmithKline B.                                      |   |                |                |
|                          |              | EP 831901 B1   | 04-01-1998          | Slaqui, Mocef M                                    | 1.  | •              | Г              |
|                          |              | WO 97/00697  |                     | Peetermans, J.                                     |   |                | Г              |
|                          |              | EP 833662 B1   |                     | Peetermans, J.                                     |   |                | Т              |
| J                        |              | EP 245045 B1   | 11-03-1993          | Anderson, P.                                       | 1   | \              | Г              |
| 40                       |              | WO 87/06838  |                     | Anderson, P.                                       |   | 1              | ┢              |

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|                    |              |  | U. S. PATENT                | DOCUMENTS  |   |
|--------------------|--------------|--|-----------------------------|--|---|
| Examiner Initials* | Cite<br>No.1 | Document Number  Number-Kind Code <sup>2 (N Anown)</sup> | Publication Date MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
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| FOREIGN PATENT DOCUMENTS   |   |   |             |  |   |          |
|----------------------------|---|---|-------------|--|---|----------|
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|                            |   | Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known) | MM-DD-YYYY  | Applicant of Cited Cocument                        | Or Relevant Figures Appear                        | T⁰       |
| 5                          | L | WO 01/41800   | 06/14/2001  | Esikova, I.  |   |          |
|                            |   | WO 01/30390   | 05/03/2001  | Laferriere, C.                                     |   |          |
|                            |   | WO 00/71725   | 11/30/2000  | Giuliani, M.                                       |   |          |
|                            |   | WO 00/38711   | 07/06/2000  | McMaster, R.                                       | 1   |          |
| $\checkmark$               |   | WO 99/42130   |             |  |   |          |
| 40                         |   | WO 98/54296   | .12-03-1998 |  | 1.  | -        |

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|                    |             |  | U. S. PATENT (                 | DOCUMENTS  |   |
|--------------------|-------------|--|--------------------------------|--|---|
| Examiner Initials* | Cite<br>No. | Document Number                        | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant |
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| Examiner Cite Initials* No.1 |  | Cite   Foreign Patent Document   Pr   |            | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,                             |    |  |
|                              |  | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>8</sup> (if known) | MM-DD-YYYY | Applicant of Cited Document                        | Where Relevant Passages Or Relevant Figures Appear | T. |  |
| 97                           |  | WO 99/18121   | 04-15-1999 | Ryall, Robert P                                    |  | Г  |  |
|                              |  | WO 98/58670   | 12-30-1998 | Granoff, Dan                                       |  |    |  |
|                              |  | WO 98/47530   |            | Lees, Andrew                                       |  | ┢  |  |
|                              |  | WO 98/32873   |            | Hasler, Thomas                                     |  | ┢  |  |
| V                            |  | WO 98/30239   |            | Lees, Andrew                                       |  | Г  |  |
| 47                           |  | WO 93/07178   | 04-15-1993 | Moreau, Monique                                    |  | H  |  |

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| Attorney Docket Number | ADI 01 050 HS   | <u> </u> |  |  |

| Examiner  | Cite | Document Number                         | U. S. PATENT I |  | 1 D O-1 11 110  |
|-----------|------|---|----------------|--|---|
| Initials* | No.1 |   | MM-DD-YYYY     | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant |
|           |      | Number-Kind Code <sup>2 (f known)</sup> |                |  | Figures Appear  |
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|                              |  | FORE  | IGN PATENT DOCL     | JMENTS   |   |    |
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| Examiner Cite Initials* No.1 |  | Foreign Patent Document   | Publication<br>Date | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages | -  |
|                              |  | Country Code <sup>3 *</sup> Number <sup>4 *</sup> Kind Code <sup>3</sup> (if known) | MM-DD-YYYY          | - Applicant of Choc Document                       | Or Relevant Figures Appear                        | т⁰ |
| 47                           |  | EP 528635 B1  | 02-24-1999          | Lee, A.  |   |    |
|                              |  | EP 630260 B1  | 01-24-2001          | Schneerson, R.                                     |   | Γ  |
|                              |  | EP 398615 B1  |                     | Calabria, R.                                       |   | Г  |
|                              |  | WO 99/32653   | 07-01-1999          | Michon F.  |   |    |
| $\sqrt{}$                    |  | EP 562107 B1  | 05-02-2002          | Moreau, M.   |   | Γ  |
| 4)                           |  | WO 92/16232   | 10-01-1992          | Schneerson, R.                                     |   | -  |

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| (Use as many sheets as necessary) |   | Examiner Name        | Devi, Sarvamangala |   |               |  |
| Sheet                             | 5 | of                   | 5                  | Attorney Docket Number  | API-01-059-US |  |

|                       | •            | OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS  |                |
|-----------------------|--------------|--|----------------|
| Examiner<br>Initials* | Cite<br>No.1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.                | T <sup>2</sup> |
| _                     |              | GEBINK G S ET AL: Pneumosccal capsular polysaccharide meningococcal outer memorane protein complex conjugate vaccines: In munogenicity and efficacy in experimental pneumococcal otitis media: The Journal of Infectious diseases, vol 167, no 2, February 1993, pages 347-355 |                |
|                       |              | CAMPACNE G. ET AL: Safety and immunogenicity of three doses of a Neisseria meningitidis A+ diphtheria conjugate faccine in infants from Niger Pediatric Infectious Disease Journal, Vol 19, no 2 Pages 144-150   |                |
|                       |              | PAOLETTI L C ET AL: Neonatal mouse protection against infection with multiple group B s treptococcal (GBS) serotypes by maternal immunization with a terravalent GBS polys accharide-telanus toxold conjugate vaccine: Infection and Immunity, Vol 62, no 8 Pages 3233-3243    |                |
| 40                    |              | BUNDEL D R ET AL: Determination of the structure and conformation of bacterial polysaccharides by carbon 13 nuclear magnetic resonance. The Journal of Biological Chemistry, Vol 249, no 7, April 10 1974, Pages 2275-2281   |                |
| 4                     |              | GOTSCHLICH E M ET AL: Human Immunity to the meningococcus. J. Exp Med, Vol 129, 1969, Pages 1349-1365  |                |
| 5)                    |              | JENNINGS'H J ET AL: Structures of the capsular polysaccharies of neisseria meningilidis as determined by c-nuclear magnetic resonance spectroscopy. The Journal of Infectious diseases, Vol 136, August 1977, Pages S78-S83  |                |
| 4)                    |              | GOEBEL W F ET AL: Chemo-immunological studies on conjugated carbohydrate-proteins. J. Exp Med, Vol 68, 1938, Pages 469-481   |                |
|                       |              | CONSTANTINO P ET AL: Development and phase 1 clinical testing of a conjugate vaccine against meningococcos A and C. Vaccine, Vol.10, 1992, Pages 691-698   |                |
| 53                    |              | ROBBINS: Vaccines for the prevention of encapsulated bacterial diseases current status, problems and prospects for the future. Immunochemistry, Vol 15, 1978 Pages 839-854   | ·              |
|                       |              |  |                |

| Examiner      |          | Date       | 130-1011-01P. |
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